

Project Report

Strategy Logic:

Strategy Name: Simple Moving Average (SMA) Crossover Strategy

This strategy is based on the idea that trends in Bitcoin prices can be captured by tracking short- and long-term price movements using moving averages. I used a 10-day SMA (short-term) and a 50-day SMA (long-term). When the 10-day SMA crosses above the 50-day SMA, it signals a bullish trend — triggering a long entry. Conversely, when the 10-day SMA crosses below the 50-day SMA, the position is closed to protect against losses.

This crossover approach is popular because it is Simple to interpret, Avoids lookahead bias, Effective in trending markets

Key Performance Metrics:

Metric	Value
Initial Capital	1,000
Total Trades	16
Net Profit	\$3,431.03
Total Return	343.10%
Sharpe Ratio	5.25
Win Rate	56.25%
Max Drawdown	37.37%
Best Trade PnL	\$4,351.91
Worst Trade PnL	-\$848.43
Average Holding Time	44 days 18 hours
No. of Long Trades	16
No. of Short Trades	0

Lookahead Bias

None Detected

Observations:

The strategy performed well during strong uptrends.

It avoided excessive overtrading (only 16 trades total), indicating solid signal quality.

The Sharpe Ratio of 5.25 shows strong risk-adjusted returns.

Comparison: Currently, only one strategy has been submitted.